NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P2-BC2 **Date: 08-05-2018**

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.45 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**97.25**	90-100
9.5	**84.55**	70-88
4.75	**66.76**	53-71
2.36	**58.34**	42-58
1.18	**43.76**	34-48
0.600	**33.66**	26-38
0.300	**25.72**	18-28
0.150	**15.11**	12-20
0.075	**7.78**	4-10

KIRAN. R
M.E. (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NEW TECHNOLOGIES TO INNOVATE

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NZ/QC/YPD/T&F-W3/2018-19/P2-BS2 Date: 09-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1344**	900
2	Marshall Flow at 60°C, mm.	**3.41**	2.0 - 4.0

KIRAN. R
M.E, (Civil-Engg)
For Newzen Consultants Bangalore
Proprietor

AE

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NEW TECHNOLOGIES TO INNOVATE

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NZ/QC/YPD/T&F-W3/2018-19/P2-BC3 Date: 09-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.42 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**97.23**	90-100
9.5	**84.56**	70-88
4.75	**66.11**	53-71
2.36	**55.56**	42-58
1.18	**43.78**	34-48
0.600	**33.66**	26-38
0.300	**25.77**	18-28
0.150	**15.31**	12-20
0.075	**7.95**	4-10

KIRAN. R
M.E, (Civil-Engg)

AE

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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NZ/QC/YPD/T&F-W3/2018-19/P2-BS3 **Date: 10-05-2018**

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1341**	900
2	Marshall Flow at 60°C, mm.	**3.56**	2.0 - 4.0

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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NZ/QC/YPD/T&F-W3/2018-19/P2-BS4 Date: 12-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1290**	900
2	Marshall Flow at 60°C, mm.	**2.98**	2.0 - 4.0

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

AE

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NZ/QC/YPD/T&F-W3/2018-19/P2-BS4 Date: 12-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1290**	900
2	Marshall Flow at 60°C, mm.	**2.98**	2.0 - 4.0

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

AE

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NEW TECHNOLOGIES TO INNOVATE

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NZ/QC/YPD/T&F-W3/2018-19/P2-BC5 Date: 14-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.53 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**97.43**	90-100
9.5	**81.77**	70-88
4.75	**66.44**	53-71
2.36	**55.12**	42-58
1.18	**43.67**	34-48
0.600	**33.21**	26-38
0.300	**25.77**	18-28
0.150	**17.34**	12-20
0.075	**6.92**	4-10

KIRAN. R
M.E, (Civil-Engg)

AE

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NEWZEN CONSULTANTS BANGALORE

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Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P2-BS5 Date: 15-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1389**	900
2	Marshall Flow at 60°C, mm.	**3.12**	2.0 - 4.0

KIRAN. R
M.E, (Civil-Engg)

AE

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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